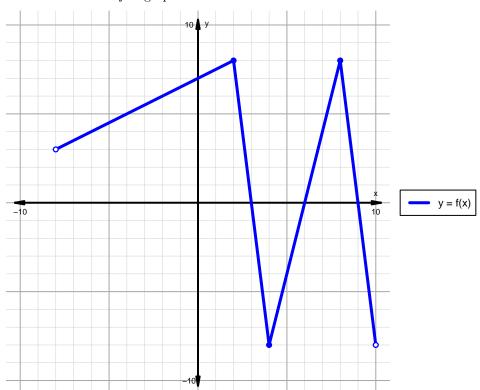
Intervals, Transformations, and Slope EXAM (version 160)

1. The function f is graphed below.

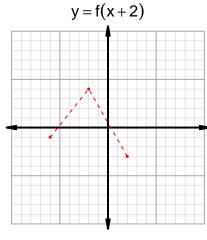


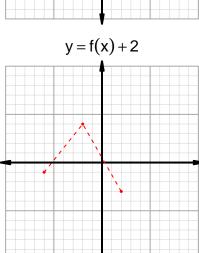
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

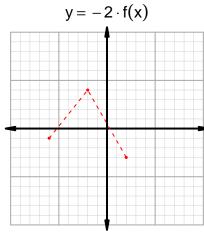
Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

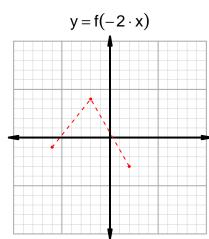
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2. In the four graphs below, y = f(x) is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.









3. Let function g be defined by the table below. Use the formula $\frac{g(x_2)-g(x_1)}{x_2-x_1}$ to find the average rate of change between $x_1=47$ and $x_2=83$. Express your answer as a reduced fraction.

\overline{x}	g(x)
18	83
47	18
48	47
83	48